

A method of suppressing a narrow-band interference in a broadband communication system, wherein a broadband noise signal is formed in the transmission channel in a frequency band (F_0, F_1) ; the broadband noise signal is modulated by a given modulation technique to modulate the power thereof at a modulation frequency $F_{\text{mod}} \ll (F_1 - F_0)$; the resultant signal is passed through a propagation medium and received by the receiver together with a narrow-band interference superimposed thereon in the propagation medium, and filtered in the frequency band (F_0, F_1) ; two signals are formed, one of which is obtained by amplifying the signal filtered in the frequency band (F_0, F_1) and limiting the amplitude thereof, and the second signal is the above filtered signal or a filtered signal linearly amplified without altering the shape thereof; the two signals thus obtained are multiplied; the resultant signal is filtered in the frequency band $[\Delta F_{\text{nar}}, (F_1 - F_0)]$; and the envelope of the signal obtained is separated and demodulated to obtain an information signal, wherein ΔF_{nar} is the frequency band of the squared amplitude variation spectrum of the interference voltage.